

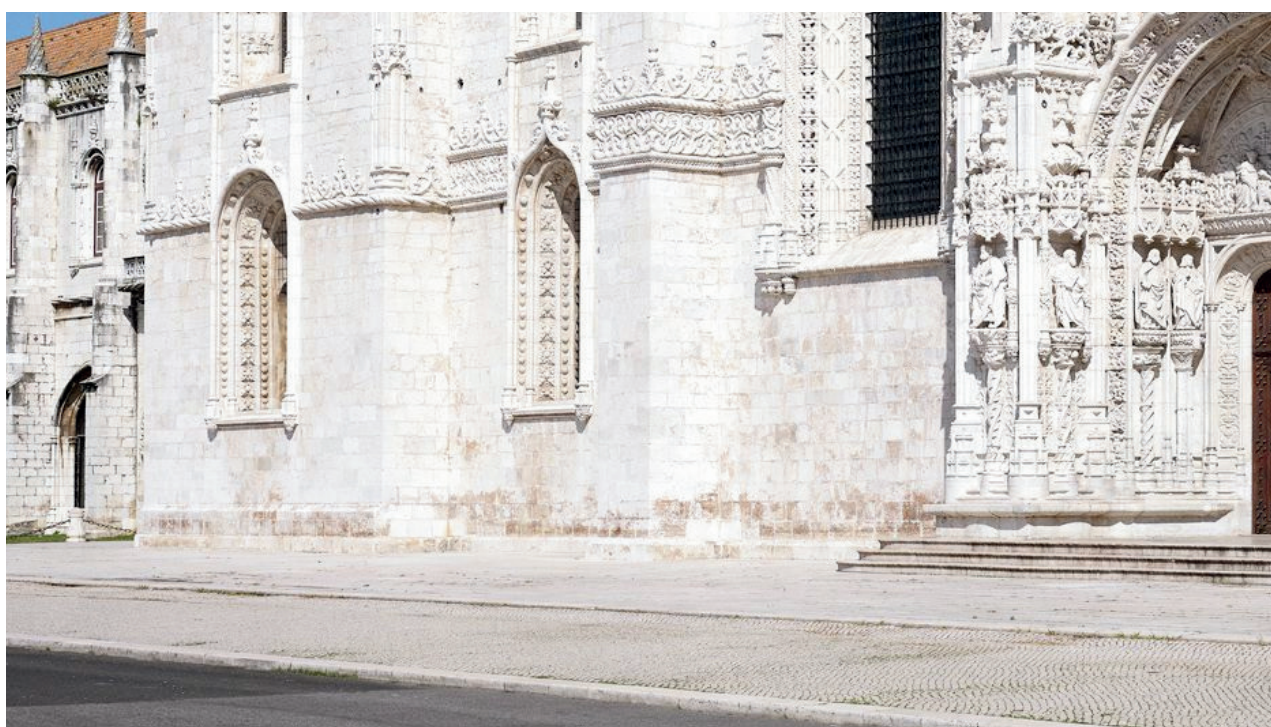


Cinpar 2026

XXII International Conference on Building
Pathology and Construction Repair
15th to 17th July 2026 - Lisbon, Portugal



CONFERENCE GUIDE



	15 July	16 July	17 July
09:00			
10:00			
10:10			
10:30	Opening Ceremony CINPAR 2026 Auditorium	Keynote Session Auditorium	Keynote Session Auditorium
	G15.B1.A Auditorium	Technical Session Auditorium	G17.B1.A Auditorium
	G15.B1.1 Room 02.1	G16.B1.1 Room 02.1	G17.B1.1 Room 02.1
	G15.B1.2 Room 02.2	G16.B1.2 Room 02.2	G17.B1.2 Room 02.2
11:00	Coffee Break	Coffee Break	Coffee Break
11:30			
12:00	CIB W86 Session Auditorium		Technical Session Auditorium
	G15.B2.1 Room 02.1	G16.B2.1 Room 02.1	G17.B2.1 Room 02.1
	G15.B2.2 Room 02.2	G16.B2.2 Room 02.2	G17.B2.2 Room 02.2
12:30			
13:00	Lunch Break	Lunch Break	Lunch Break
14:00			
14:30	Keynote Session Auditorium	Keynote Session Auditorium	
15:00			
15:10	Technical Session Auditorium		G17.B3.A Auditorium
	G15.B3.1 Room 02.1	G16.B3.1 Room 02.1	G17.B3.1 Room 02.1
	G15.B3.2 Room 02.2	G16.B3.2 Room 02.2	G17.B3.2 Room 02.2
15:40			
16:00	Coffee Break	Coffee Break	
16:30	G15.B4.A Auditorium	G16.B4.A Auditorium	G17.B4.A Auditorium
	G15.B4.1 Room 02.1	G16.B4.1 Room 02.1	G17.B4.1 Room 02.1
	G15.B4.2 Room 02.2	G16.B4.2 Room 02.2	G17.B4.2 Room 02.2
17:00			
17:30			
18:00			
19:00			
20:00	Welcome Reception Carmo Archaeological Museum	Conference Banquet Museu da Gerveja	
20:30			
21:00			
Legend for General Sessions:			
	Inspection and Defects	Materials and Techniques	Natural Hazards
		Infrastructure	Design Projects and Rehabilitation Works
		Built Heritage	Management and Standards
			Research and Recent Developments



CINPAR2026 CONFERENCE



Established in 2003, CINPAR is a milestone of excellence, celebrating over twenty years of transformation in the construction sector. Originating from the IEMAC of the Vale do Acarajú State University, the event has grown and developed, offering a unique platform for sharing ideas, knowledge, and advancements. The inaugural meeting, organised by Professor Francisco Carvalho, took place in Sobral, Ceará. Today, it is regarded as one of the world's leading conferences in the field of structural pathology and rehabilitation. Over the past 21 editions, both in-person and virtual meetings have been successfully hosted in six countries: Brazil, Argentina, Portugal, Chile, Italy, and Turkey.

Topics

- T1 – Inspection and Defects
- T2 – Materials and Techniques
- T3 – Natural Hazards
- T4 – Infrastructure
- T5 – Design Projects and Rehabilitation Works
- T6 – Built Heritage
- T7 – Management and Standards
- T8 – Research and Recent Developments



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XIII International Conference on Building
Pathology and Construction Repair
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The Honorary Committee of CINPAR consists of distinguished individuals who have made substantial contributions to the development and continuation of the congress over the years. Their inclusion acknowledges the dedication and efforts of those who have helped shape the history and standing of CINPAR.

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Cinpar 2026

XXII International Conference on Building
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15th to 17th July 2026 - Lisboa, Portugal

Keynote



Dr. Javier Ortega

Affiliation: Instituto de Tecnologías Físicas y de la Información Leonardo Torres Quevedo (ITEFI), Spanish National Research Council (CSIC), Spain

Title: Automated large-scale non-destructive testing of heritage buildings for structural diagnosis

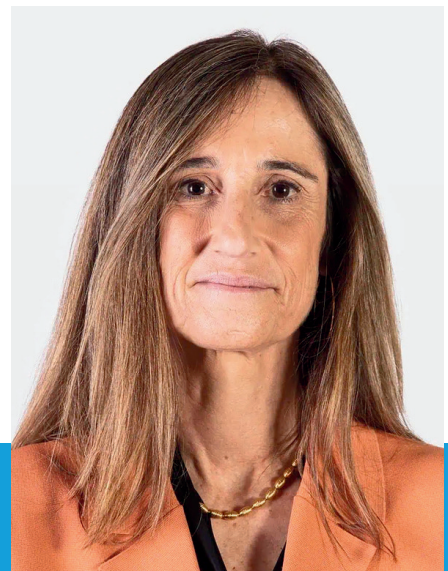
This keynote will explore the use of automated NDT systems that allow to cover full buildings or large building components, reflecting on the advantages, limitations, challenges and future research directions. With a particular focus on the case study of the rammed earth towers in the Alhambra, the lecture will discuss the novel system developed, fabricated and deployed on-site, the operational constraints and complex test setup, as well as the processing and interpretation of the data collected. The results aim to show the potential of using highly automated systems for the inspection and structural diagnosis of architectural heritage.

Prof. Rita Bento

Affiliation: Instituto Superior Técnico, University of Lisbon, Portugal

Title: Safeguarding Heritage: Integrated Evaluation and Rehabilitation Strategies for Existing and Historic Structures

This keynote will explore integrated approaches to the evaluation, rehabilitation, and strengthening of existing and historic structures, reflecting the growing relevance of the rehabilitation sector and the rapid evolution of materials, technologies, and diagnostic methods. Through a series of selected case studies, the presentation will illustrate how historical research, material characterization, experimental testing, digital surveying, and calibrated numerical modelling can be combined to support effective and compatible intervention strategies.



Scan the QR
code for more
information

Speakers

Prof. Ana Ferreira Silva

Affiliation: Lusophone University, Portugal

Title: Reimagining Pathology Diagnosis in Built Heritage

The diagnosis of built heritage has historically been a fragmented practice. While the eyes of an expert remain essential, digitalisation is redefining the paradigm of pathology diagnosis from a series of “snapshots” to a more accurate, reproducible, and scalable process. Through examples such as machine learning based façade anomaly detection and photogrammetric identification of pathology, this keynote shows how digital tools can improve the consistency and objectivity of diagnosis. Digitalisation is often misunderstood when reduced to the production of digital images or models. The true value of digitalisation lies in creating persistent information systems in which each inspection adds new evidence to an evolving representation of the building.



Prof. Daniel V. Oliveira

Affiliation: University of Minho, Portugal

Title: Seismic performance of traditional rammed earth constructions: from structural assessment to strengthening

Earthen construction has been widely adopted thanks to the local availability of the constituent materials, the sustainability of the building process, and its relative simplicity and low cost. Conversely, these structures are typically characterised by a significant seismic vulnerability, fundamentally due to the low mechanical strength of the material, its high mass, and the almost absence of engineering-based design and construction methods. This keynote discusses the results of an experimental campaign focused on the in-plane and out-of-plane cyclic behaviour of unreinforced and TRM retrofitted rammed earth structures.



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For fast, convenient, and sustainable travel throughout Lisbon, the Lisbon Metro is the ideal choice. With a network connecting the city's main points of interest, it provides a safe and efficient way to get around while avoiding traffic and significantly reducing travel times. Whether you are visiting for tourism, business, or simply exploring the city's rich cultural heritage, the metro offers easy access to major landmarks, museums, shopping areas, leisure attractions, and key transport hubs.

For detailed information about the network, timetables, fares, ticket options, accessibility, and available services, please visit the official Lisbon Metro website at www.metrolisboa.pt.



Scan for more!



Cinpar 2026

XXII International Conference on Building Pathology and Construction Repair
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METRO MAP

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Monuments and historical landmarks

- 1 Belém Tower
- 2 Jerónimos Monastery
- 3 Monument to the Discoveries
- 4 Saint George's Castle
- 5 National Pantheon
- 6 Pier of the Columns
- 7 Lisbon Cathedral
- 8 Augusta Street Arch
- 9 Rossio Station
- 10 Glória Funicular
- 11 Basilica of Estrela

Historic neighborhoods and more places of interest

- 1 Rossio Square
- 2 Figueira Square
- 3 Commerce/Palace Square
- 4 Chiado
- 5 Bairro Alto
- 6 Alfama
- 7 Liberdade Avenue
- 8 LxFactory
- 9 Lisbon Oceanarium

Museums

- 1 National Tile Museum
- 2 Museum of Art, Architecture and Technology (MAAT)
- 3 National Coach Museum
- 4 Belém Cultural Centre (CCB)
- 5 National Museum of Archaeology
- 6 Nacional Museum of Contemporary Art (MNAC)
- 7 Gulbenkian Modern Art Centre
- 8 Carmo Archaeological Museum

Viewpoints and riverfront

- 1 São Pedro de Alcântara Viewpoint
- 2 Santa Luzia Viewpoint
- 3 Portas do Sol Viewpoint
- 4 Senhora do Monte Viewpoint
- 5 Graça Viewpoint
- 6 Santa Justa Lift
- 7 Ribeira das Naus Avenue
- 8 Pilar 7 - 25 de Abril Bridge Experience
- 9 Park of the Nations

Historical gardens

- 1 Botanical Garden of Lisbon
- 2 Empire Square Garden
- 3 Tropical Botanical Garden
- 4 Gardens of the Calouste Gulbenkian Foundation
- 5 Eduardo VII Park
- 6 Estufa Fria
- 7 Estrela Garden

CINPAR2026 Conference Place

- 📍 Instituto Superior Técnico (IST)

INTEREST POINTS OF THE CITY



Venue

Instituto Superior Técnico

Av. Rovisco Pais, 1, 1049-001 Lisboa

Metro Station: Alameda / Saldanha

Instituto Superior Técnico aims to contribute to the development of society, promoting excellence in higher education, in the fields of Architecture, Engineering, Science and Technology by developing Research, Development and Innovation (RD&I) activities.



Banquet

Museu da Cerveja

Terreiro do Paço - Ala Nascente, nº62 a 65, 1100-148 Lisboa

Metro Station: Terreiro do Paço

At Terreiro do Paço, where Lisbon breathes and the Tagus inspires, the Beer Museum is a celebration at the table. Here, tradition doesn't rush – dishes honouring Portuguese cuisine and Lusophone flavours are savoured slowly, because time spent at the table here is always well lived.



Welcome Reception

Museu do Carmo

Largo do Carmo, 1200-092 Lisboa

Metro Station: Baixa-Chiado

One of Lisbon's most iconic museums, located within the ruins of the former Carmo Convent in Largo do Carmo. The museum stands out for combining architectural and archaeological heritage, allowing visitors to explore the history of Portugal in a setting shaped by the aftermath of the 1755 earthquake.





DETAILS OF THE PROGRAMME



Cimper 2026

20th International Conference on Building
Pathology and Construction Repair
15th to 17th July 2026 - Lisboa, Portugal

Day 1: Wednesday, 15 July

09:00 – 10:00	Opening Ceremony CINPAR 2026	Room: Auditorium	Chair: Tiago Miguel Ferreira Esequiel Mesquita
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Session: C15.B1.A

Topic: Inspection and Defects	Room: Auditorium	Chair: Ricardo Almeida
10:10 – 10:25	Characterization and Assessment of Structural Timber Elements of a Building in the Historic Centre of Viseu, Portugal	Mónica Nicolau
10:25 – 10:40	Systematic cataloging of information for the semantic enrichment of the HBIM model of the Almofala Church	Maria Isadora Messias
10:40 – 10:55	Analysis of Pathological Manifestations in a Public School in The Municipality of Juazeiro do Norte, Ceará: A Case Study	Jefferson Luiz Alves Marinho

Session: C15.B1.I

Topic: Materials and Techniques	Room: 02.1	Chair: Ana Mafalda Matos
10:10 – 10:25	Durability assessment of sargassum-based compressed earth blocks under abrasion cycles	Jhade Virmieiro
10:25 – 10:40	Energy Efficiency and Sustainable Materials in Façade Rehabilitation: Challenges of Thermal Insulation in the Azores	Maria Paula Mendes
10:40 – 10:55	Development of 3D-Printed Conductive Mortar Electrodes for smart bricks	Israel Sousa

Session: C15.B1.2

Topic: Research and Recent Developments	Room: 02.2	Chair: Jéssica Deise Bersch
10:10 – 10:25	Análise Química por Fluorescência de Raios X Portátil em Metal do Passado	Adolpho Cuido de Araújo
10:25 – 10:40	Durabilidade da cor em concretos pigmentados pretos: avaliação do comportamento cromático sob envelhecimento acelerado	Vanessa Monteiro da Silva
10:40 – 10:55	Influence of Construction and Demolition Waste as Fine Aggregate Replacement on the Performance of Self-Compacting Mortars	Fernando Augusto Jorge

Session: C1B.W086 Thematic Session

Topic: New Trends in Building Pathology: Research, Innovation and Practice	Room: Auditorium	Chairs: Inês Flores-Colen Jorge de Brito
11:30 – 11:35	Welcome and Introduction	Jorge de Brito
11:35 – 11:50	Building Pathology and ETICS: Current Challenges and Future Perspectives	Vasco Peixoto de Freitas
11:50 – 12:05	Infrared Thermography Use in Building Pathology - Where Are We?	Ecem Edis
12:05-12:20	The Use of Drones in the Inspection of Constructions	João Lanzinha
12:20-12:35	Automated Detection of Biological Soiling on Building Facades Using Hyperspectral Cameras	Nathan Van Den Bossche
12:35-12:50	Uncertainty and Risk Analysis in Inspection and Diagnosis	Clara Pereira
12:50-13:00	Discussion and Closing Remarks	All speakers

Session: C15.B2.I

Topic: Infrastructure	Room: 02.1	Chair: Mylene Vieira
11:30 – 11:45	Infrastructure, Architecture, and Tourism Urbanization: Digital Modeling of the Impacts of the Sabiaguaba Environmental and Gastronomic Complex, Fortaleza, Ceará, Brazil	Ricardo Paiva
11:45 – 12:00	Impact of Structural Pathologies on Property Market Value	João da Costa Pantoja
12:00 – 12:15	Diagnostic analysis of differential settlement using the Berberian Method and foundation reinforcement with Mega Piles in a residential structure: A case study in Goiânia, Brazil	Marília Araújo
12:15-12:30	Classes de Agressividade do Concreto no Brasil: Influência Regional, Patologias e Implicações em Projeto	Stefania Zebal Silva
12:30-12:45	Pathological Manifestations in Building Structures: Evaluation of Causes, Impacts on Durability, and Intervention Costs	Bruna Sell
12:45-13:00	Avaliação de vulnerabilidade sísmica de escolas de Lisboa: da priorização à escala urbana à análise estrutural detalhada	Luís Ferreira

Session: C15.B2.2

Topic: Built Heritage		Room: 02.2	Chair: Ana Mafalda Matos
11:30 – 11:45	Point Clouds Beyond BIM: Aesthetic Composition and Montage Techniques for Immersive Room Films in Heritage Education		Carlos Eugênio Moreira de Sousa
11:45 – 12:00	Geophysical Characterization of Historic Masonry using Ground-Penetrating Radar (GPR)		Maria Isadora Gonçalves
12:00 – 12:15	Residual mechanical properties of masonry materials after exposure to high temperatures		Ema Jankovicova
12:15-12:30	Lime Mortars with Fibres and Residues for the Sustainable Rehabilitation of Wattle and Daub Walls		Ana Velosa
12:30-12:45	Incorporation of Eggshell Residues in Lime Mortars for Rehabilitation of Wattle and Daub Walls		Ana Velosa
12:45-13:00	Caracterização de Chacotas Históricas a partir de Classificação Análoga de Rochas Sedimentares Através de Microscopia por Luz Polarizada		Maurilio Amancio de Moraes

Keynote Session

Room: Auditorium		Chair: Esequiel Mesquita
14:00 – 15:00	Seismic performance of traditional rammed earth constructions: from structural assessment to strengthening	Daniel V. Oliveira

Session: Technical Session

Room: Auditorium		Chair: Fernando Pinho
15:10 – 15:30	À cerca da Taipa executada na cerca medieval interior da Fortaleza e Castelo de Juromenha	António Eliseu
15:30 – 15:50	Rising damp in ancient walls: a new approach, a complete system	Luís Pedro Simões Mateus
15:50 – 16:00	RILEM: The International Union of Laboratories and Experts in Construction Materials, Systems and Structures	Esequiel Mesquita

Session: C15.B3.1

Topic: Natural Hazards		Room: 02.1	Chair: Nuria Chiara Palazzi
15:10 – 15:25	From risk assessment to mitigation and emergency planning for multiple natural hazards in urban built environments: a mesoscale, user-dynamics-based framework		Alessia Freddo
15:25 – 15:40	Assessment of the impact of mining activities, with particular focus on mining tremors affecting masonry structures		Leszek Chomacki
15:40 – 15:55	Monitoring of Geological Risk Areas Using UAVs with High-Precision Aerial Photogrammetry Support: The Case of Sol Nascente, Section 3, Federal District, Brazil		Mafalda Pantoja

Session: C15.B3.2

Topic: Materials and Techniques		Room: 02.2	Chair: Mislav Stepinac
15:10 – 15:25	Modified masonry triplets for the shear characterisation and numerical modelling of NFRMC-strengthened masonry		Nandini Priya Thatikonda
15:25 – 15:40	Enhancing the tensile performance of natural fibers for inorganic matrix composites in masonry strengthening		Mehdi Zahedi
15:40 – 15:55	Compressive Behaviour of Masonry Columns Strengthened with PBO-FRCM Systems: Experimental and DEM Numerical Investigation		Matteo Mauro

Session: C15.B4.A

Topic: Built Heritage		Room: Auditorium	Chair: Ana Velosa
16:30 – 16:45	The Historic Site of Sobral, Brazil: The importance of its listing by IPHAN in the requalification of buildings and urban space		Eder Paulus Cuerra
16:45 – 17:00	Architectural Documentation of the San Sebastian Church		Dalane Oliveira da Silva
17:00 – 17:15	Heritage Management and the Progressive Deterioration of an Earthen Troje in Mexico City		Pilar Espinoza Vázquez

Session: C15.B4.1

Topic: Design Projects and Rehabilitation Works		Room: 02.1	Chair: Giovanna Schäfer Bartels
16:30 – 16:45	A Resilience Clock for Residential Buildings: Age- and Hazard-Conditioned Fragility and Functional Loss via SFD(t) × UHS(TR)		Alvaro Hurtado
16:45 – 17:00	Effect of high levels of cement substitution on the mechanical properties of ECC as a repair material		Urs Buegger
17:00 – 17:15	Integration of an HBIM Model with Thermographic and Damage Image Analysis Based on Computer Vision		Eugênio Moreira

Session: C15.B4.2

Topic: Inspection and Defects		Room: 02.2	Chair: Isabel Torres
16:30 – 16:45	Pathology of Ceramic Tile Systems in Brazil: Investigating Moisture Expansion in Blib Tiles through a Multi-Analytical Case Study		Renato Freua Sahade
16:45 – 17:00	Mapping Façade Soiling Patterns through Image Processing		Jéssica Deise Bersch
17:00 – 17:15	Manifestações Patológicas em Empreendimento Residencial: Avaliação de Garantia em Fortaleza - CE		Allefy Teles Sampaio

Day 2: Thursday, 16 July

Keynote Session

Room: Auditorium		Chair: Esequiel Mesquita
14:00 – 15:00	Seismic performance of traditional rammed earth constructions: from structural assessment to strengthening	Daniel V. Oliveira

Session: Technical Session

Room: Auditorium		Chair: Ana Velosa
10:10 – 10:40	Solução estrutural em edifícios classificados	Rui Silva
10:40 – 11:00	Método Investigativo para Análise de Infiltrações	Marília Araújo

Session: C16.B1.1

Topic: Inspection and Defects		Room: 02.1	Chair: Daniel V. Oliveira
10:10 – 10:25	Análise dos defeitos em pavimento rodoviário flexível sob diferentes condições climáticas	Francisco Lacerda de Oliveira	
10:25 – 10:40	A 3d tomographic CPR inspection using a self-constructed cable-driven robot of the Torre de la Vela in La Alhambra (Granada, Spain)	Miguel Ángel García	
10:40 – 10:55	Advanced Resilience Techniques for Historical and Understudied Sacral Architecture – The ARTHUR Project	Mislav Stepinac	

Session: C16.B1.2

Topic: Natural Hazards		Room: 02.2	Chair: Pilar Baquedano-Juliá
10:10 – 10:25	Physical Vulnerability to Floods in Historic Urban Areas: A Building-Scale Assessment Approach	Cessica Sparvoli	
10:25 – 10:40	Watershed as a Basis for Heritage Vulnerability Assessment of Historic Urban Landscapes	Esequiel Mesquita	
10:40 – 10:55	Seismic Vulnerability Assessment of a Heritage Unreinforced Masonry Building: Pushover Analysis	Helena Arias Lara Leite	

Session: C16.B2.A

Topic: Built Heritage		Room: Auditorium	Chair: Javier Ortega
11:30 – 11:45	Desafios na Reabilitação de Edificações: a formação acadêmica como elemento-chave para a qualidade das intervenções	Erika Menezes	
11:45 – 12:00	Integração entre tradição e inovação: desafios da aplicação da madeira laminada colada em patrimônios edificados	Mônica Nicolau	
12:00 – 12:15	Mapping technical façade elements under low-intensity seismicity to support risk-informed urban decision-making	Elena Cantatore	
12:15-12:30	Metodologia Digital Integrada para a Conservação do Patrimônio Construído: da Reconstrução Virtual ao Fabrico Aditivo	Inês Bourgeois	
12:30-12:45	Seismic assessment and strengthening of the Church of Santo Tomás de Aquino in Rondocan, Peru	Elesban Nochebuena-Mora	
12:45-13:00	From Theory to Practice: Expert Views on Vulnerability of URM Buildings	Antonela Moretic	

Session: C16.B2.1

Topic: Materials and Techniques		Room: 02.1	Chair: Ricardo Almeida
11:30 – 11:45	On the Seismic and Energy Retrofit of Masonry Buildings Using Inorganic Matrix Composites	Ardalan Hassan	
11:45 – 12:00	Effects of Limestone Filler, Metakaolin, and Polypropylene Fibers on the Flow Properties and Buildability of Cementitious Mixtures for 3D Concrete Printing (3DCP)	Ana Mafalda Matos	
12:00 – 12:15	Avaliação da substituição parcial de cimento por Pó reciclado: Influência na Resistência à Compressão de Pastas Cimentícias	Pablo Coes	
12:15-12:30	Cementitious Composites with Steel Industry Residues and Interaction with Atmospheric CO₂	Laís Costa	
12:30-12:45	An Investigation on the Mechanical Response of Composite-Reinforced Mortar for Masonry Strengthening	Mehdi Zahedi	
12:45-13:00	Análise Patológica de Edificação Histórica com Proposta de Reabilitação: Um estudo de caso no Estado do Ceará, Brasil	Gabriele Rodrigues	

Session: C16.B2.2

Topic: Infrastructure		Room: 02.2	Chair: Iran Segundo
11:30 – 11:45	Surface distress evaluation of interlocking concrete block pavements using the Pavement Condition Index (PCI): a case study in Brazil	Francisco Lacerda de Oliveira	
11:45 – 12:00	Thermal behavior of urban pavements under the influence of tree shading: implications for pavement performance and durability	Nayara Curjão	
12:00 – 12:15	Análise da Expansão da Infraestrutura Urbana de Brasília. Aspectos da Reabilitação de Viadutos no Trevo de Triagem Norte.	Paulo Robert	
12:15-12:30	Analysis of the influence of rainfall variability on asphalt pavement deterioration: a case study based on functional condition surveys	Francisco Lacerda de Oliveira	
12:30-12:45	Proposal for an optimal timing for maintenance and rehabilitation strategies on interlocking pavements	Francisco Lacerda De Oliveira	
12:45-13:00	Mortar with Steelmaking Slag for Repairs of Historic Buildings	Laís Costa	

Session: Ordem dos Engenheiros Thematic Session

Topic: Especialização em Reabilitação do Património Construído		Room: Museu DECivil	Chairs: Vasco Peixoto de Freitas Inês Flores-Colen Sofia Barbosa
11:30 – 12:00	Apresentação da Especialização		Session Chairs
12:00 – 12:30	History of Construction, Engineering and Built Heritage		João Mascarenhas Mateus
12:30 – 13:00	The Challenges of Rehabilitation in Built Heritage		Aníbal Costa

Keynote Session

Room: Auditorium		Chair: Inês Flores-Colen
14:00 – 15:00	Reimagining Pathology Diagnosis in Built Heritage	Ana Ferreira Silva

Session: G16.B3.A

Topic: Management and Standards		Room: Auditorium	Chair: Nuria Chiara Palazzi
15:10 – 15:25	Study of strategies for the evaluation of metal structures under fire action		Alfonso Cobo Escamilla
15:25 – 15:40	Data structuring and systemic failure analysis in built asset management: application to fire detection and suppression system maintenance		Mylene Vieira
15:40 – 15:55	Structural Fire Risk in Historic Urban Districts: A Component-Based Analysis of Its Relationship with Multidimensional Poverty		Pilar Baquedano-Juliá

Session: G16.B3.1

Topic: Built Heritage		Room: 02.1	Chair: Nandini Priya Thatikonda
15:10 – 15:25	Framework for assessing and mapping degradation risks in historic building facades		Ricardo Almeida
15:25 – 15:40	Large-Scale Seismic Vulnerability Assessment of Masonry Buildings: A Critical Appraisal of Index-based Methods		Letizia Mancini
15:40 – 15:55	HBIM-Driven Management of Diagnostic Information: A Proof of Concept		Mariella De Fino

Session: G16.B3.2

Topic: Research and Recent Developments		Room: 02.2	Chair: Mislav Stepinac
15:10 – 15:25	Discrete element-based particle modelling optimization for stone masonry wall's structural assessment		Maria Margarida Marques
15:25 – 15:40	Unveiling hybrid two-way out-of-plane response of existing unreinforced masonry structures through extensive shake-table testing		Dario Vecchio
15:40 – 15:55	Corrosion Assessment for prestressed steel strands based on experimental data and numerical analysis		Thamara Tofeti Lima

Session: G16.B4.A

Topic: Inspection and Defects		Room: Auditorium	Chair: Eugénio Moreira
16:30 – 16:45	Towards an Automatic Defect Detection on Historical Surfaces Based on Hyperspectral Imaging Data: A Hierarchical Classification Framework		Maria Francesca Muccioli
16:45 – 17:00	Use of the Cut Matrix in the Analysis of Pathological Manifestations in Housing Units of the Minha Casa Minha Vida Program: A Case Study		Jefferson Luiz Alves Marinho
17:00 – 17:15	Building Pathologies in the Rehabilitation of Substandard Housing: Technical Assessment of Housing Improvement Works		Rafael Moraes

Session: G16.B4.1

Topic: Materials and Techniques		Room: 02.1	Chair: Poliana Bellei
16:30 – 16:45	Linking Fabrication Route, Microstructure, and Fire Performance in Mycelium-Based Insulation Composites		Neuza Valadas
16:45 – 17:00	Origem e interferência dos teores de cálcio de fragmentos cerâmicos do século XVIII em Pernambuco		Eudes Rocha
17:00 – 17:15	Caracterização Mecânica da Alvenaria Ordinária de Lisboa através de Ensaios com Macacos Planos		Jorge Fonseca

Session: C16.B4.2

Topic: Built Heritage		Room: 02.2	Chair: Inês Bourgeois
16:30 – 16:45	Adaptive vs. Uniform Decimation: A Quantitative Analysis of 3D Mesh Optimization for HBIM		Eugênio Moreira
16:45 – 17:00	Integration of an HBIM Digital Model with GPR Data Interpreted using Machine Learning		Maria Isadora Gonçalves
17:00 – 17:15	HBIM for modeling a cultural heritage asset using a hybrid scan-to-BIM workflow: Challenges and Insights from the Pinacoteca do Ceará		Esequiel Mesquita
17:15 – 17:30	Wattle and daub (tabique) mortars in Northern Portugal		Ana Velosa

Day 3: Friday, 17 July

Keynote Session

Room: Auditorium		Chair: Humberto Varum
09:00 – 10:00	Safeguarding Heritage: Integrated Evaluation and Rehabilitation Strategies for Existing and Historic Structures	Rita Bento

Session: C17.B1.A

Topic: Inspection and Defects		Room: Auditorium	Chair: Maria Paula Mendes
10:10 – 10:25	Reabilitação de Sistemas de Impermeabilização em Lajes Alveolares Pré-Fabricadas de Grande Extensão, com tratamento de trincas aplicadas sob condições adversas		Juliana Alves
10:25 – 10:40	Progressive failure analysis in elevated swimming pool Waterproofing systems: a diagnostic framework for correlating executive non-conformities and watertightness loss mechanisms		Micaele Brandão da Silva
10:40 – 10:55	Investigation of ultrasonic propagation angles for the identification of wood elastic properties		Sonagnon Jerome Afoutou

Session: C17.B1.1

Topic: Materials and Techniques		Room: 02.1	Chair: Laís Costa
10:10 – 10:25	Control of fresh concrete's composition through non-intrusive microwave electrical impedance spectroscopy		Marcos Roberto Fortulan
10:25 – 10:40	Alkaline durability of AR-glass FRCM systems: tensile behaviour of bare fibres and cement-based composites under direct and accelerated conditioning		Matteo Mauro
10:40 – 10:55	Betão branco de elevado desempenho eco-eficiente com incorporação de pó de vidro para aplicações arquitetônicas		Ana Mafalda Matos

Session: C17.B1.2

Topic: Built Heritage		Room: 02.2	Chair: Mylene Vieira
10:10 – 10:25	Análise da Reconstrução da Infraestrutura Escolar do Rio Grande do Sul Decorrente dos Efeitos do Desastre Climático Ocorrido em 2024		Márcio Buzar
10:25 – 10:40	Electromechanical Self-Sensing Behavior of Lime Mortars with Carbon Nanotubes and Microfibers		Ryan Araújo
10:40 – 10:55	Porto Historical Heritage - Digital Twins and Underground Excavation Works		João Pinto

Session: Technical Session

Room: Auditorium		Chair: Inês Flores-Colen
11:30 – 11:50	Preservar o Passado e Proteger o Futuro: O rigor e qualidade no diagnóstico das construções em Portugal	Susana Fernandes & João Martins
11:50 – 12:10	Valorização de Resíduos de Membranas de Impermeabilização em Misturas Betuminosas	José Neves
12:10 – 12:30	Do diagnóstico à reabilitação	José Paulo Costa
12:10 – 12:50	Buildings Structural and Foundations Strengthening Solutions	André Henriques

Session: C17.B2.1

Topic: Inspection and Defects		Room: 02.1	Chair: Mylene Vieira
11:30 – 11:45	Impacts of Deficient Maintenance on the Integrity and Durability of Reinforced Concrete Reservoirs		Amanda Ávila de Souza
11:45 – 12:00	Análise de dados de patologias higrotérmicas: estudo estatístico de relatórios técnicos de edifícios		Mariana Nadaís
12:00 – 12:15	Comportamiento Sísmico de Estructuras Prefabricadas Existentes		Estrella Torres
12:15-12:30	Analysis of pathological manifestations in the buildings of the Igreja do Céu Tourist Center in the Municipality of Viçosa do Ceará		Eder Paulus Moraes Guerra
12:30-12:45	Vision-based structural health monitoring for detection and characterization of cracks in concrete: A systematic review		Daiane Oliveira da Silva
12:45-13:00	GeoAI Resilience-Based approach for critical assets under natural hazards		Maria João Falcão Silva

Session: G17.B2.2

Topic: Built Heritage		Room: 02.2	Chair: Maria Paula Mendes
11:30 – 11:45	Underground Intervention in a Historic Building: Structural Compatibility and Heritage Preservation at the Museu Paulista		Fabiana Lopes de Oliveira
11:45 – 12:00	A Multi-Sensor Acquisition Framework for Built Heritage Documentation: Application at the Church of Nossa Senhora da Conceição de Almofala		Jose Lucas Gomes Mendes
12:00 – 12:15	Social Tourism and Modern Heritage: Digital Documentation and Conservation of the Sesc Garanhuns Holiday Camp (1956), Brazil		Ricardo Paiva
12:15-12:30	Challenges in data collection for the development of maintenance plans for historic buildings for cultural use integrated with HBIM models		Ana Cecilia Vasconcelos
12:30-12:45	Semantic Structuring of Generic HBIM Elements for Building Systems		Esequiel Mesquita
12:45-13:00	Modelagem digital do Museu da Imagem e do Som a partir de nuvem de pontos		Ana Cecília Vasconcelos

Session: G17.B3.A

Topic: Management and Standards		Room: Auditorium	Chair: Laís Costa
15:10 – 15:25	Digital documentation of cultural heritage based on high-resolution scanning		Esequiel Mesquita
15:25 – 15:40	Leveraging Data Analytics to Manage Visitor Flows in Heritage Sites		Alessandro Ceppetelli
15:40 – 15:55	Proposed Adaptation of the GUT Criticality Matrix for the Maintenance Management of Concrete Pavements in Fuel Stations		Marília Araújo

Session: G17.B3.1

Topic: Built Heritage		Room: 02.1	Chair: Javier Ortega
14:00 – 14:15	Unreinforced masonry bell & clock towers earthquake-strengthening techniques in Chile: a preliminary typological survey of four case studies		Marco Barrientos
14:15 – 14:30	Material Parameter updating Based on Operational Modal Analysis (OMA): Application to the Sciri Tower		Renan Nogueira Paulo
14:30 – 14:45	Damage mapping of a 50's building as a strategy for maintenance		Bruna Hígino Vale

Session: G17.B3.2

Topic: Infrastructure		Room: Auditorium	Chair: Iran Segundo
14:00 – 14:15	Impact of Defects on the Deflection Response of Interlocking Pavements		Francisco Lacerda de Oliveira
14:15 – 14:30	Procedure for assessing the dynamic resistance of existing bridge structures located in seismically active mining areas		Janusz Rusek
14:30 – 14:45	A Computational Tool Based on Artificial Neural Networks for Supporting PCI Evaluation in Interlocking Concrete Block Pavements		Francisco Lacerda de Oliveira

Session: CIB Student Session

Room: DECivil Museum		Chairs: Jéssica Deise Bersch Giovanna Schäfer Bartels	
14:00 – 14:15	The Role of the CIB Student Chapter IST/UL: Perspectives on Research and Cooperation		Jéssica Deise Bersch
14:15 – 14:30	Optimising resource value extraction in demolition and rehabilitation: A digital twin-transition approach - EU Horizon DISCOVER project		Isobel Andrews-McCarroll
14:30 – 14:45	Impactos da Manutenção Baseada na Condição no Desempenho da Envolvente dos Edifícios		Giovanna Schäfer Bartels

Session:
G17.B4.A

Topic: Built Heritage		Room: Auditorium	Chair: Pilar Baquedano-Juliá
15:10 – 15:25	Integrating Computer Vision and Machine Learning for Detection of Damage in Historic Buildings		Mylene Vieira
15:25 – 15:40	Argumentación en contra del uso de revoques texturados plásticos en fachadas patrimoniales. El caso del Museo Provincial de Bellas Artes de Santa Fe (Argentina)		Manuel Alfredo Mina

Session: G17.B4.1

Topic: Natural Hazards		Room: 02.1	Chair: Esequiel Mesquita
15:10 – 15:25	Climate Resilience Skills for Cultural Heritage Buildings: A European Educational Framework Developed through the ECOHERITAGE Project		Inês Flores-Colen
15:25 – 15:40	The use of aerial surveying for land regularization purposes and the right to the city: the case of Dorothy Stang in the Federal District		Mafalda Pantoja

Session: C17.B4.2

	Topic: Materials and Techniques		Room: 02.2	Chair: Ricardo Paiva
	15:10 – 15:25	Enhancing Concrete Durability Using Jute Fibre-Reinforced Bio-Mortar with Microbial Assisted Self-Healing	Oluwatosin Balogun	
	15:25 – 15:40	Low-Carbon Cements and Construction Durability: A Systematic Review	Juliana Gaio Somer	

	16:00 – 17:00	Closing Ceremony	Room: Auditorium	Chair: Tiago Miguel Ferreira Humberto Varum
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TÉCNICO MAP



Saldanha Metro Station / Arco do Cego (Yellow Line / Red Line)
Walking Distance = 16 minutes

West Entrance
Alves Redol Street

South Entrance

Rovisco Pais Avenue

António José de Almeida Avenue

North Entrance



Manuel da Maia Avenue

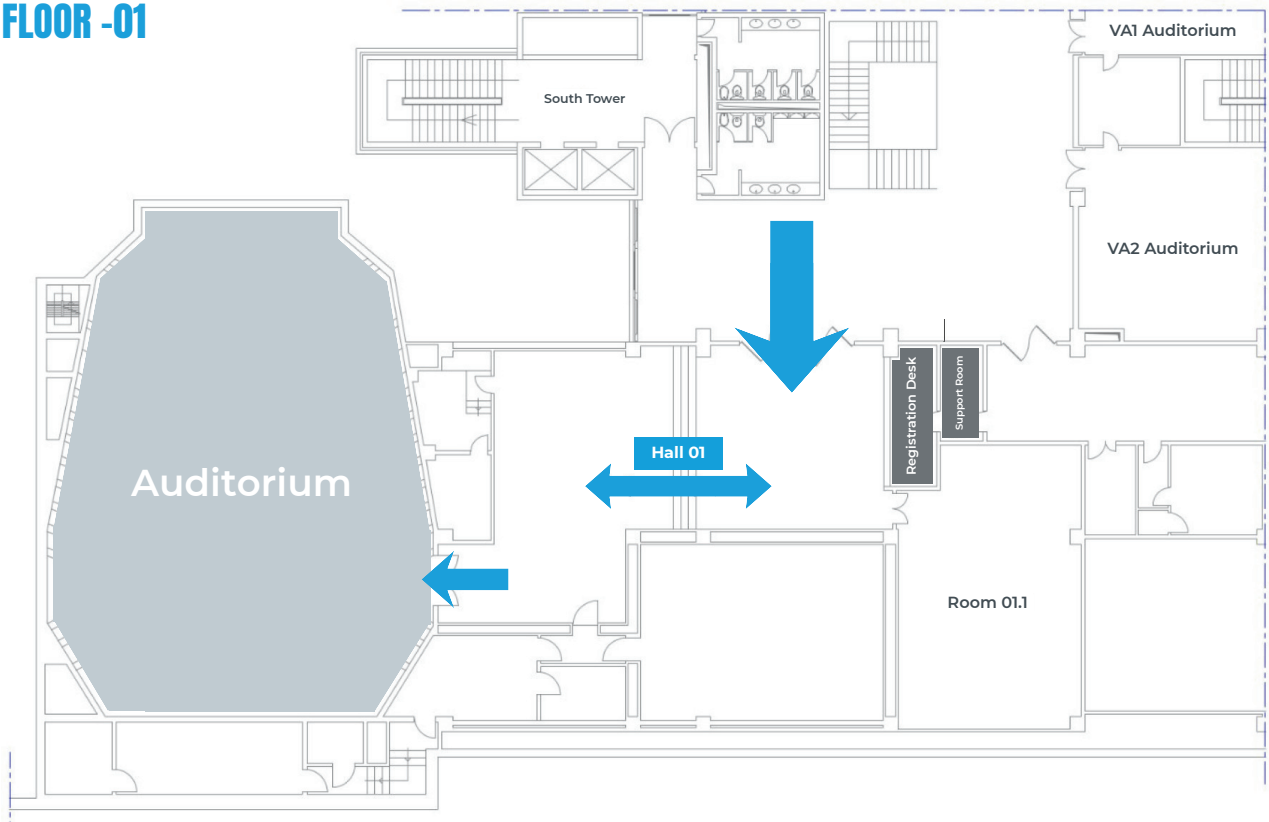
East Entrance

Alameda Metro Station (Green Line / Red Line)
Walking Distance = 16 minutes

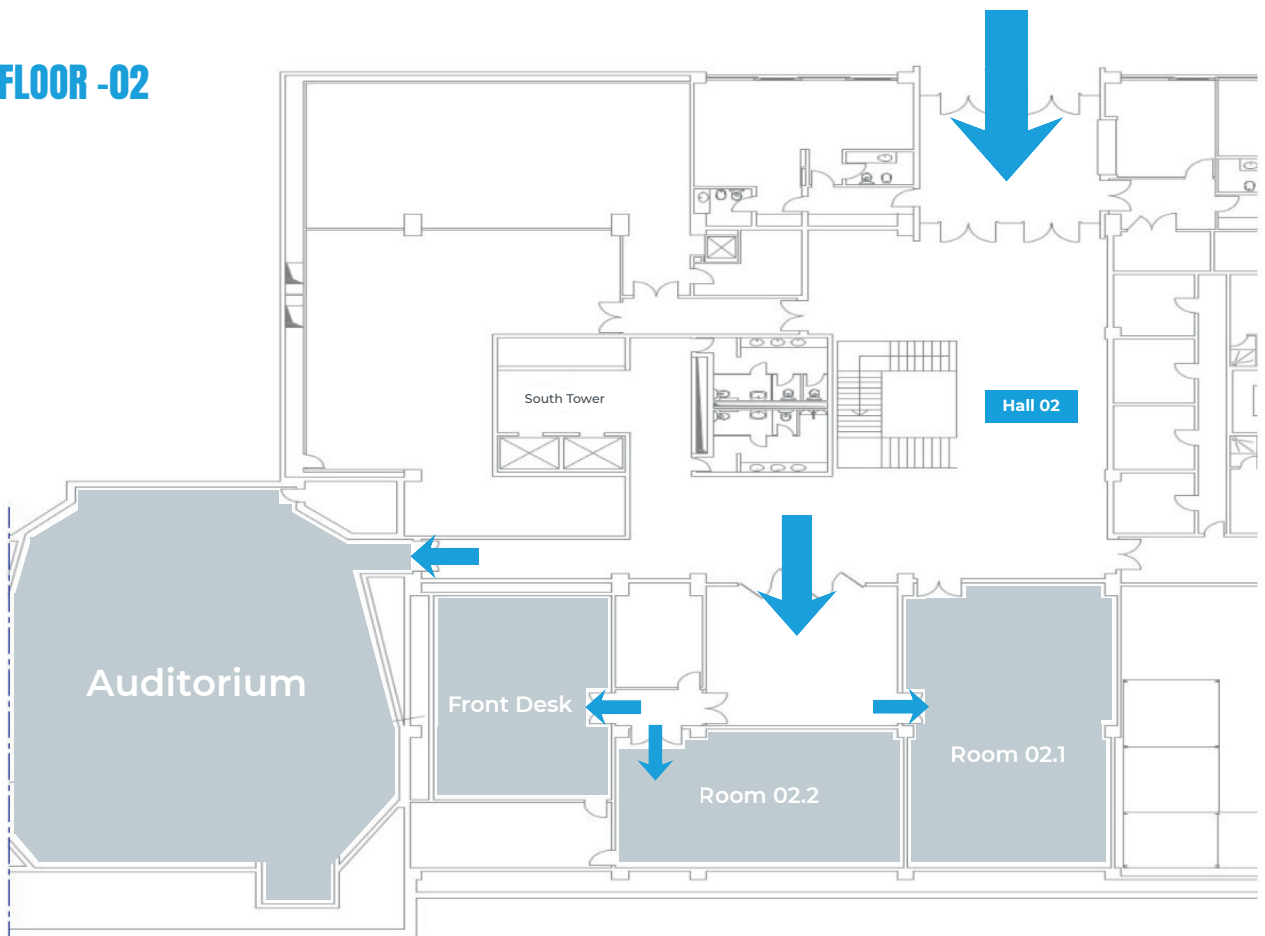


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FLOOR -01



FLOOR -02

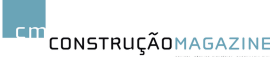


FLOOR -1 & -2 MAP

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